

IN THE CLAIMS

Please amend the claims as follows:

1. (original) A low-pressure gas discharge lamp that has, in a gas-discharge vessel, one or more inert gases as a buffer gas and means for producing and maintaining a low-pressure gas discharge, characterized in that it contains a gallium halide or a mixture of a plurality of gallium halides.
2. (original) A low-pressure gas discharge lamp as claimed in claim 1, characterized in that, in addition to one or more gallium halides, it also contains indium and/or thallium.
3. (currently amended) A low-pressure gas discharge lamp as claimed in ~~claims 1 and 2~~claim 1, characterized in that it contains the elements gallium, halogen and indium and/or thallium in the following molar proportions: the expression governing the molar proportions of Z is:  $m(Z) > 0$ , and the expression governing the molar proportions of X, Ga and Z is:  $m(X) < m(Ga) + m(Z)$ , where X stands for fluorine, chlorine, bromine and/or iodine and Z for indium and/or thallium.

4. (currently amended) A low-pressure gas discharge lamp as claimed in ~~claims 1 to 3~~claim 1, characterized in that the total concentration of the gallium and indium/thallium halides in the gas phase in the gas-discharge vessel is  $2 \times 10^{-9}$  to  $2 \times 10^{-11}$  mol/cm<sup>3</sup>.

5. (currently amended) A low-pressure gas discharge lamp as claimed in ~~claims 1 to 4~~claim 1, characterized in that the gas-discharge vessel is surrounded by a heat-reflecting outer envelope.

6. (currently amended) A low-pressure gas discharge lamp as claimed in ~~claims 1 to 5~~claim 1, characterized in that the inert gas pressure in the gas-discharge vessel is between 1 and 5 mbar.

7. (currently amended) A low-pressure gas discharge lamp as claimed in ~~claims 1 to 6~~claim 1, characterized in that the discharge is excited capacitively or inductively and by a high-frequency alternating field.

8. (currently amended) A low-pressure gas discharge lamp as claimed in ~~claims 1 to 6~~claim 1, characterized in that the discharge can be excited by internal electrodes made of high-melting-point materials.

9. (original) A low-pressure gas discharge lamp as claimed in claim 8, characterized in that the internal electrodes are provided with a material having a low work function.

10. (currently amended) A low-pressure gas discharge lamp as claimed in ~~claims 1 to 9~~claim 1, characterized in that it contains a phosphor by which the proportion of UV in the radiation generated is converted into visible radiation.

11. (currently amended) An illumination device, characterized in that it includes one or more low-pressure gas discharge lamps as claimed in ~~claims 1 to 10~~claim 1.

12. (original) An illumination device, selected from the group of tanning devices, backlighting devices for LCD-displays, UV-disinfection devices and UV-curing devices for resins.